

**ABSTRACT OF THE DISCLOSURE**

In a semiconductor device of a structure comprising a thin semiconductor element bonded to a reinforcing plate via a bonding layer of a predetermined thickness, resin binder used for forming the bonding layer contains fillers including a first filler, which has a diameter generally equal to a target thickness of the bonding layer to be adjusted to a value within a range of proper thickness (from 25 $\mu$ m to 200 $\mu$ m). This can maintain the bonding layer within the range of proper thickness when the semiconductor element is bonded to the plate, and ensure on-board mounting reliability of the semiconductor device.